



What is occlusal balance?

The concept of OCCLUSAL BALANCE is different from OCCLUSAL STABILITY: it's a dynamic concept closer to physiology. During his life, the patient changes his own occlusion physiologically, due to ageing, stress or different habits, but he never loses his Occlusal Balance, even if it adjusts.

NATURAL ENAMEL is a HARD enough tissue to support the chewing loads; it is at the SAME TIME a WEARABLE tissue which adapts to the occlusal adjustments. In this way, the patient can preserve his OCCLUSAL BALANCE although the occlusion and the position of the mandible change.



ENAMEL^{plus} HRi® **Function**

Nowadays all restorative materials have excellent aesthetic properties which are comparable with one another, while we still know very little about their mechanical-functional features, especially in relation with occlusion.

The choice of materials is the key to get long-lasting results which approach to natural enamel according to aesthetic and above all functional and occlusal standards.

> We completely changed the composite aesthetics NOW.... Let's change the occlusion therapy



WEAR **COMPARATIVE ANALYSIS**

University of Chieti - Prof. Camillo D'Arcangelo

After 120.000 cycles with chewing machine vs Zirconia	Wear Depth (mm)	Volume Loss (mm3)	Antagonist Wear (mm)
Enamel plus HRi UE2 Light cured with dentist's curing unit	0.485 (0.064)°	1.452 (0.245) ^d	0.010 (0.007)
Composite F* (enamel) Light cured with dentist's curing unit	0.464 (0.069)°	0.972 (0.247) ^{b,c,d}	0.004 (0.002)
Enamel plus HRi Function EF3 Light cured with dentist's curing unit	0.335 (0.069) ^b	0.529 (0.139) ^{a,b,c}	0.006 (0.001)
Enamel plus HRi UE2 Light cured with Laborlux**	0.463 (0.063)°	1.016 (0.198) ^{c,d}	0.015 (0.013)
Composite F* (enamel) Light cured with Laborlux**	0.459 (0.068)°	1.017 (0.239) ^{c,d}	0.016 (0.017)
Enamel plus HRi Function EF3 Light cured with Laborlux**	0.276 (0.058) ^{a,b}	0.464 (0.191) ^{a,b}	0.016 (0.003)
Pressed Ceramic	0.303 (0.065) ^{a,b}	0.531 (0.143) ^{a,b,c}	0.002 (0.002)
Gold type III	0.219 (0.060) ^a	0.328 (0.140) ^a	0.004 (0.005)
Human Enamel	0.216 (0.070) ^a	0.404 (0.200) ^a	0.013 (0.004)

reference composite chosen after identified as the best among the ones tested during the preliminary phase
** curing unit for laboratory; it cures with heat (70°C/80°C)

The comparative analysis highlights the excellent wear resistance of Enamel plus HRi Function, light cured with dentist's curing unit and with Laborlux

THE MOST RESISTANT COMPOSITE ON THE MARKET

ENAMEL PLUS HRI FUNCTION IN DENTAL OFFICE











Restorations made directly in the dental office. Please note the perfect chromatic and anatomical integration.

ENAMEL HRI FUNCTION = NATURAL ENAMEL = WEAR = AESTHETICS = UNIQUE!

ENAMEL PLUS HRI FUNCTION IN LABORATORY







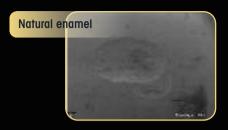




Case finished with adhesive overlays and crown made in HRi Function composite and crown in gold-HRi Function composite on implant. All restorations have been prepared and cemented to respect the new vertical dimension and the new occlusion achieved with diagnostic wax-up and confirmed by occlusal bite and MRI.

WEAR FACETS

after 120.000 cycles with chewing machine (University of Chieti - Prof. Camillo D'Arcangelo)



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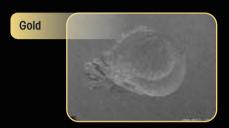
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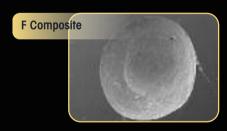
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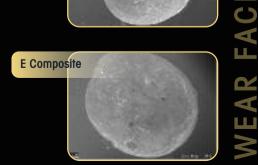
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ENAMEL^{plus} HRi® Function

PHYSICAL DATA

Vickers Hardness: Flexural Strength: Modulus of elasticity: Compressive Strenath: 760 Mpa 150 Mpa 11.500 Mpa 460 Mpa

Enamel-composite system to restore the function in a micro-invasive way respecting the neuromuscular system and getting an excellent aesthetic integration. Enamel shades subject to low abrasion that are comparable to natural enamel. Ideal for use in posterior areas with direct or indirect technique and especially for prosthetic rehabilitations.





Over the years we completely changed the composite aesthetics, first with Enamel Plus HFO, developed in cooperation with Prof. Lorenzo Vanini, and then with Enamel Plus HRi, the only composite with the same refractive index as natural enamel. Now we want to introduce on the market:

Enamel Plus HRi Function

the only composite,
ideal for posterior,
with mechanical and
functional characteristics
identical to gold and
similar to natural enamel,
that maintains the
OCCLUSAL BALANCE
over time





HR6FC

4 dentines: UD1, UD2, UD3, UD4 1 universal enamel UE2 1 "Function" enamel EF3

including 6 syringes 2.5 g

CR3F

ENAMEL PLUS HRI FUNCTION KIT including 3 syringes 2,5 g
3 "Function" enamels: EF1, EF2, EF3

ENAMEL PLUS HRI FUNCTION TRIAL KIT

CHR6FC

KSFCI

ENAMEL PLUS HRI FUNCTION TRIAL KI including 36 tips (6 tips x 6 shades) 4 dentines: UD1, UD2, UD3, UD4 1 universal enamel UE2 1 "Function" enamel EF3

ENAMEL PLUS HRI FUNCTION KIT including 18 tips (6 tips x 3 shades)
3 "Function enamels": EF1, EF2, EF3



Micerium S.p.A.
Via G. Marconi, 83-16036 Avegno (GE) Italy
Tel. (+39) 0185 7887 880 • Fax (+39) 0185 7887 970
hfo@micerium.it • www.nicerium.com

